

MODIS-Based Products for Operational Decision Support Systems, Phase I

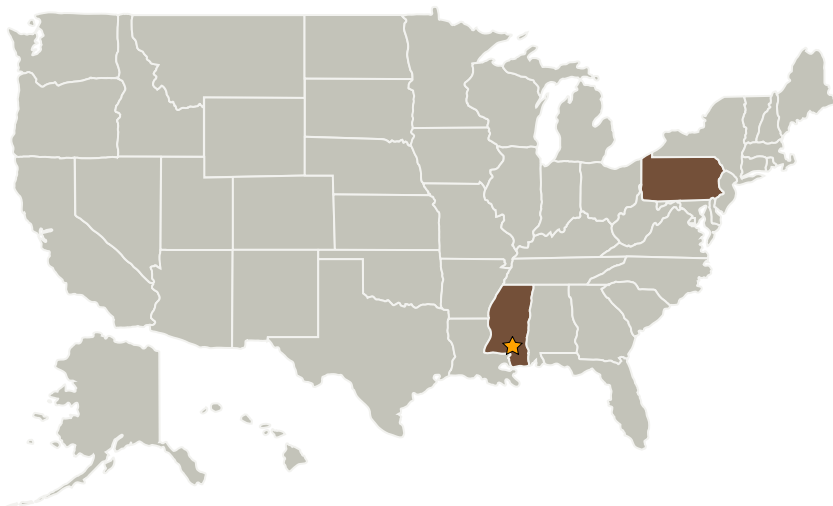
Completed Technology Project (2005 - 2005)



Project Introduction

SMH Consulting proposes to develop a web-based decision support system to assist in Rapid Assessment, Monitoring, and Management (RAMM-DSS) on a regional scale. SMH Consulting will focus on the Chesapeake Bay Watershed and collaborate with the Chesapeake Bay Program (CBP) for the RAMM-DSS development during Phase I. The RAMM-DSS will supplement operational decision support tools already in use with tailored data products routinely derived from NASA's MODIS data. Delivery of data products and information will be through a web portal where users can view, query, and download data for a specified area and time period of interest. The RAMM-DSS will support NASA missions by (i) lowering technical and logistical barriers to the use of ESE data, (ii) making ESE data easy-to-use for practitioners, and (iii) supporting educational initiatives on use of RS data in operational scenarios. The web delivery of data and information tailored to client requirements will bridge the gap between RS data providers and applicational users. Further, the educational component consisting of real-world, hands-on case studies and RS and satellite/sensor overviews, will aim to eventually close this gap altogether by making practitioners more knowledgeable and aware of the use of RS data in their daily operations.

Primary U.S. Work Locations and Key Partners



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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Stennis Space Center (SSC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Organizations Performing Work	Role	Type	Location
★Stennis Space Center(SSC)	Lead Organization	NASA Center	Stennis Space Center, Mississippi
GDA Corp.	Supporting Organization	Industry	State College, Pennsylvania

Primary U.S. Work Locations	
Mississippi	Pennsylvania

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

Dmitry Varlyguin

Technology Areas

Primary:

- TX11 Software, Modeling, Simulation, and Information Processing
 - └ TX11.4 Information Processing
 - └ TX11.4.2 Intelligent Data Understanding